EXHIBIT 7

Message

From:

Neal Knuth [n.knuth@samsung.com]

Sent:

6/11/2021 11:40:11 AM

To:

Harrison Yoo [hsang.yoo@samsung.com]

CC:

Daniel (Kyong Yong) Lee-mySingle [ky1217.lee@samsung.com]

Subject:

Presentation file

Attachments: Netlist DSK Visit Feburary 21, 2017.eml; Netlist DSK Visit Feburary 21, 2017.eml; PPT(Netlist Meeting).eml

Attached is what I have.

Thanks,

Neal Knuth 949 910 2835

From: 유혁상 [mailto:hsang.yoo@samsung.com]

Sent: Thursday, June 10, 2021 4:53 PM To: Neal Knuth <n.knuth@samsung.com>

Cc: Daniel (Kyong Yong) Lee-mySingle <ky1217.lee@samsung.com>

Subject: Presentation file



Neal,

Can you please try to find the presenation material which Netlist presented on Feb 2017 when they visited DSK with you?

: their comany introduction and business discussion

Regards

Hyeoksang(Harrison) Yoo America Sales (Consumer & EDP)

Hyeoksang Yoo

B2B Sales Management, Principal Professional Memory Sales Group 1 Samsung Electronics

T. +82.31.208.3733 M. +82.10.8861.9054 F. +82.31.208.3959 hsang.yoo@samsung.com www.samsung.com

CASE NO. 8:20-cv-0099	3-MCS (ADS)
Netlist Inc.	
vs. Samsung Electro	onics Co., Ltd.
DEFENDANT'S EXHIBIT	519A
DATE	IDEN
DATE	EVID

Case 2:22-cv-00293-JRG Document 721-8 Filed 07/02/24 Page 3 of 50 PageID #: 66060

The above message is intended solely for the named addressee and may contain trade secret, industrial technology or privileged and confidential information otherwise protected under applicable law including the Unfair Competition Prevention and Trade Secret Protection Act. Any unauthorized dissemination, distribution, copying or use of the information contained in this communication is strictly prohibited. If you have received this communication in error, please notify the sender by email and delete this communication immediately.

상기 메일은 지정된 수신인만을 위한 것이며 부정경쟁 방지 및 영업비밀 보호에 관한 법률을 포함하여 관련 법령에 따라 보호의 대상이 되는 **영업비밀, 산업기술 등을 포함**하고 있을 수 있습니다. 본 문서에 포함된 정보의전부 또는 일부를 <mark>무단으로 제3자에게 공개, 배포, 복사 또는 사용하는 것은 엄격히 금지</mark> 됩니다. 본 메일이 잘못 전송된 경우, 발신인에게 알려 주시고 즉시 삭제하여 주시기 비랍니다.

Hyeoksang Yoo

B2B Sales Management, Principal Professional Memory Sales Group 1 Samsung Electronics

T. +82.31.208.3733 M. +82.10.8861.9054 F. +82.31.208.3959 hsang.yoo@samsung.com www.samsung.com

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008147 SAM-NET00550982 0519.3

Message

From:

Neal Knuth [n.knuth@samsung.com]

Sent:

3/3/2017 12:34:08 AM

To:

Howard Sung [hwanam.sung@samsung.com]; Yejin Moon [yejin.moon@samsung.com]; Daniel (Kyong Yong) Lee-

mySingle [ky1217.lee@samsung.com]; Harrison Yoo [hsang.yoo@samsung.com]

CC:

Steven Metz [s.metz@samsung.com]; Lane Kim [kihoon74.kim@samsung.com]; Rick (Chun Ching) Yeh

[rick.yeh@samsung.com]; Tim Le [tim.le@samsung.com]; Michael (Sie Pook) Law [michael.law@samsung.com]; In

Dong Kim [indong2.kim@samsung.com]

Subject:

Netlist DSK Visit Feburary 21, 2017

Attachments: Samsung 4PM 2-20.pdf; HybriDIMM Status Feb 21 v2.pdf

Attached are both presentations that Netlist presented. Can we please make sure the Technical Team in Korea gets the Hybrid DIMM update as attached.

Thanks for everyone hospitality and support during the meeting last week.

Thank you, 감사합니다 **Neal Knuth** Samsung Semiconductor, INC Southwest Regional Manager New Office Number: 949 910 2835

nealk@ssi.samsung.com

Notice: Unless specifically identified as a firm offer or an offer to sell, this message is not an offer of sale. Any terms stated in this message or prices quoted are merely indications of terms on which Samsung Semiconductor, Inc. may consider selling, and are not intended to be binding. Privacy Notice: This message is intended only for the use of the individual to which it is addressed and may contain information that is privileged, confidential or exempt from disclosure under applicable Federal or State law. If the reader of this message is not the intended recipient, or the employee or agent responsible for the delivery of the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this email in error, please notify us immediately by telephone or return email and delete the original email and any copies thereof. Thank you.

From: Neal Knuth

Sent: Tuesday, February 21, 2017 12:22 AM

To: Howard Sung; Yejin Moon; Daniel (Kyong Yong) Lee-mySingle; Harrison Yoo

Cc: Steven Metz; Lane Kim

Subject: Netlist DSK Visit Feburary 21, 2017

Howard,

Harrison just translated what was said on two key topics that were discussed in Korean. I edited below. Any other feedback?

Thanks,

Neal Knuth 949 910 2835

From: Neal Knuth

Sent: Monday, February 20, 2017 11:35 PM

To: Howard Sung; Yejin Moon; Daniel (Kyong Yong) Lee-mySingle; Harrison Yoo

Cc: Steven Metz; Lane Kim

Subject: Netlist DSK Visit Feburary 21, 2017

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008148 SAM-NET00550983 0519.4 Thanks Howard for the Samsung presentations.

I will send off to Netlist after we get their presentations (both Technical and Sales have been requested). Until I get, here are my first pass of notes without the overviews (it was difficult to read what was on the Netlist presentations). Also, as so much Korean was spoken for some topics, I hope someone can add to the below (including SEC attendees as both groups were quite large.

Please help distribute as needed within SEC after adding Team's comments or editing. (I did not copy DS).

Sales Portion

Netlist Attendees:

Paik Ki Hong VP WW Operations

Brian Anderson VP Sales
JB Kim VP Sales

Sebastian Lee Director Engineering

Samsung Attendees:

Dong Sung Yang
Daniel Lee
Harrison Yoo
Kate Moon
Hyoungseok Kwon
Jaehyung Park
Younggyun Lee
Neal Knuth

Technical:

Indong Kim Benjamin Lim KC Roo Kate Moon Neal Knuth

Netlist Sales Overview (will attach when have)

- Brain Peterson presented Netlist overview, discussing his responsibility on North America and EU sales while JB Kim handles Asia Pacific.
- Netlist described 17 years of DRAM development and invention, which includes over 100 patents in DRAM technology.
- Netlist was a pioneer in the development of DRAM, including patents on LRDIMM, VLP and NVDIMM.
- Discussed the JDLA signed with Samsung in November of 2015 which is active for 5 years.
- Hybrid DIMM announced publicly in August of 2016, expanding Netlist Patents.
- Discussed ITC litigation against SK Hynix. Trial to begin in May, with resolution by October 2017.
- Netlist first company to develop NV function in support of Dell.
- Hypercloud product was first LRIDMM in industry.
- Netlist Solutions and Offerings include a:
- PCI Offering
- NVDIMM
- HyperDIMM

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008149 SAM-NET00550984 0519.5

- These solutions and customer discussions lead naturally into Samsung Storage Solutions including DRAM and SSD (finished products) besides using components in their actual products above.
- Typical DRAM Netlist solutions consists of 18-36 x4 8Gb D4 components along with 10-20 256Gb/32GB eMMC.
- Netlist main revenue driver today is a PCI express card that is plug and play along with finished Samsung solutions. Offering mainly 8GB and 16GB today.
- NVDIMM market continues to be delayed, weak demand, competing solutions yet to be proven from companies like Smart and Micron.
- NV VAULT is Netlist brand of NVDIMM-P.
- With the JDLA, and strategic partnership, Samsung is the single largest investor in Netlist.
- One stop solution for Samsung customers with NV/EV along with Samsung Finished SSD and DRAM.
- There was a very long discussion of Uber in Korean, and DongSung Yang clearly stated our intention was to follow the customer direction, whatever channel that may be (Direct or through Netlist or others).
- Netlist positioned themselves as a Dedicated Sales Channel to Samsung vs. the Disti and Rep networks.
- Synergistic sales and dedicated to Samsung products.
- Netlist showed 2016 Samsung purchases to be 9M, over ½ in Q4 (~5M)
- Netlist showed a purchase forecast for 2017 of \$100M from Samsung (neither credit line or PA can support). DongSung was sure to point out anyone could achieve this in current market. This 100M was not broken out by customer, product, or sales strategy, seemed arbitrary forecast.

At the end of Netlist presentation, these were the Asks from Netlist:

- 1. Better product support and allocation to achieve 2017 goal.
- 2. Vendor Managed Inventory (VMI), this request was ignored obviously.
- 3. OEM Pricing
- 4. Referral of small customers to Netlist for support, stock, etc.
- 5. Official Distribution Partner Agreement, this became a heated topic as DongSung described our current structure. Netlist has brought this up in the past and all requests have been denied. This discussion also went on in Korean for a while. DongSung also let Netlist know that the JDLA is clearly focused on Technology, and is not an avenue to support Netlist with standard products. This should be separate and handled on the business not executive levels.

Samsung Presented:

- Flash Market Overview (as time was over, this was brief). Jaehyung Park
- DRAM Market Overview Younggyun Lee
- 32GB price discussion ended the meeting.

Lunch at Japanese Restaurant.

Prior Meeting was Technical Update for progress of NVDIMM (will attach Netlist presentation when available)

Key Takeaways:

- Need JEDEC standard for Hybrid/NVDIMM. Samsung Netlist discussions ongoing for last 18 months.
- Recapping today, booting has worked on Large Memory Systems.
- 2 FPGA synch problem has been resolved.
- Indong Kim asking for more transparency from Netlist.
- Several timelines given on presentation, will forward when possible.
- Sebastian Lee stated we should have first samples in end of June, they expect to have internally in May.
- Netlist displayed their product roadmap for NV solutions.
- Partnered with AMD on NVDIMM-N launch. Also HyperDIMM reference design will be announced.
- Hardware solution has now been passed off to software team. Now eMMC recognized, stress testing underway.

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008150 SAM-NET00550985 0519.6

Case 2:22-cv-00293-JRG Document 721-8 Filed 07/02/24 Page 8 of 50 PageID #: 66065

- Next step is ES sample to Samsung, as mentioned in June.
- Indong was asked about competitive landscape, described mostly delay and Intel/Lenovo vs. Micron Quantex solutions.
- Indong stressed the SK Hynix and other ITC issues need to be resolved soon. Netlist stated trial to begin in May with resolution by October.
- Need to strive for standardization with JEDEC.

Thank you, 감사합니다 Neal Knuth Samsung Semiconductor, INC Southwest Regional Manager New Office Number: 949 910 2835

nealk@ssi.samsung.com

Notice: Unless specifically identified as a firm offer or an offer to sell, this message is not an offer of sale. Any terms stated in this message or prices quoted are merely indications of terms on which Samsung Semiconductor, Inc. may consider selling, and are not intended to be binding.

*Privacy Notice: This message is intended only for the use of the individual to which it is addressed and may contain information that is privileged, confidential or exempt from disclosure under applicable Federal or State law. If the reader of this message is not the intended recipient, or the employee or agent responsible for the delivery of the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this email in error, please notify us immediately by telephone or return email and delete the original email and any copies thereof. Thank you.

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008151 SAM-NET00550986 0519.7



Samsung-Netlist Partnership

February, 2017

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008152 SAM-NET00550987 0519.8

- Pioneer in DIMM architectures since 2000
 - Inventor of industry standard LRDIMM and NVDIMM
 - 100+ patents
 - Long-time custom DIMM supplier to global OEMs
- 5-year JDLA partnership, investment from Samsung Nov. 2015
- HybriDIMM (Storage Class Memory) Technology Announced Aug. 2016
- SK Hynix ITC patent litigation commenced Sep. 2016, trial May 2017

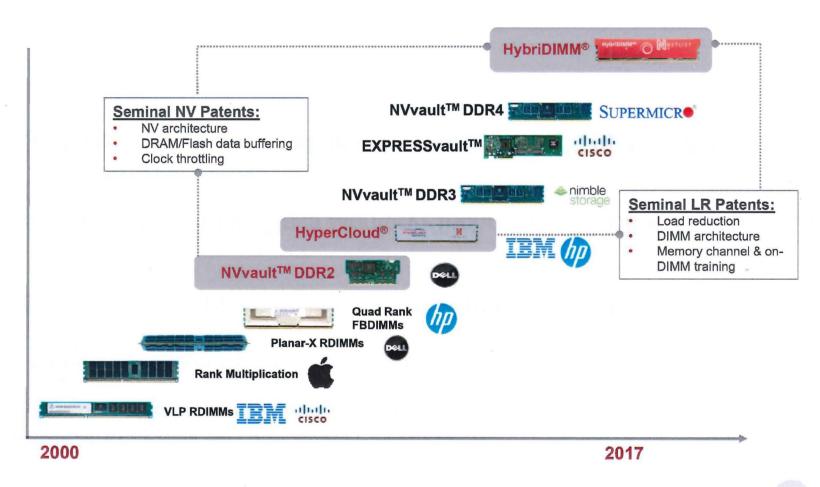
Netlist, Inc. Confidential

2

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008153 SAM-NET00550988 0519.9

INNOVATION IN HIGH-PERFORMANCE MEMORY



Netlist, Inc. Confidential

3

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008154 SAM-NET00550989 0519.10

LEADERSHIP TEAM

Chuck Hong CEO & Co-Founder (2000)	LG	WILLIAMS.
Gail Sasaki CFO (2006)	II Ex	nsta Young
Brian Peterson SVP Sales & Marketing (2015)	€ EMULEX	3COM USRobotics
Chris Lopes VP Sales & Co-Founder (2000)	TOSHIBA	LSI; PHILIPS
Jibum Kim EVP Asia Pacific Sales & Marketing (2015)	LG	SK hynix
Noel Whitley VP Intellectual Property (2013)	BROADCOM	
Vahid Ordoubadian VP Advanced Engineering (2015)	BROADCOM	cādence [®] €STEC
Dr. Hyun Lee VP & CTO (2007)	Lucent Technologies	Bell Laboratories CONEXANT

Netlist, Inc. Confidential

4

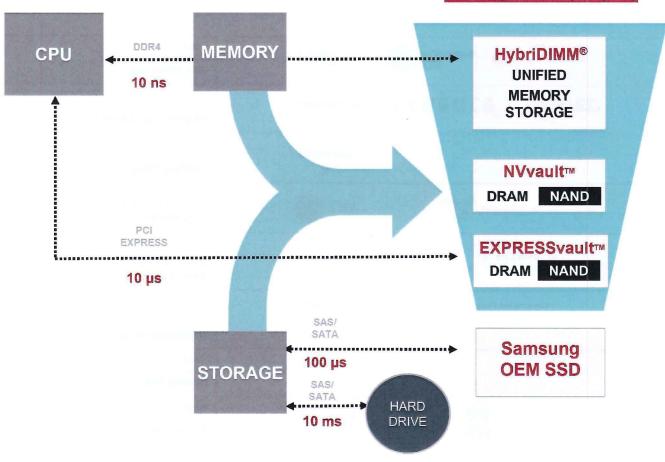
Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008155 SAM-NET00550990 0519.11

PIONEERING PRODUCTS

FOR MEMORY - STORAGE CONVERGENCE

NETLIST SOLUTIONS



Netlist, Inc. Confidential

5

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008156 SAM-NET00550991 0519.12

NVvaultTM







- DDR3 and DDR4 NVDIMM-N modules
- For industry standard server and storage systems
- Application acceleration and data protection
- Incorporates proprietary Vault controller IP

- PCI Express 3.0 plug-and-play memory card
- Designed for server and storage appliances
- Disaster recovery and write buffer acceleration
- 5x faster than SSDs in write environment

~\$350 million TAM (1)

~\$100 million TAM (1)















(1) Management estimate.

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

Netlist, Inc.



SEC008157 SAM-NET00550992 0519.13

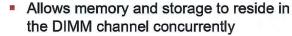
HybriDIMM™ FIRST PLUG & PLAY STORAGE CLASS MEMORY



- Industry's 1st "on-DIMM" intelligent co-processor
- TB capacity of low-cost NAND into the memory channel, and enables DRAM-like access speeds to NAND
 - √ 1000x faster than fastest storage solution today, at up to 80% lower cost
- DDR4 LRDIMM standard interface allows plug & play
- Concurrently block and byte addressable: applications can now access storage as if it was memory unlocking in-memory computing and big data analytics for the masses
- Sampling in 1H; volume production expected year-end

Pre-Sight Technology

- Predictive algorithm ensures data is at the right place at the right time
- Eliminates SSD access penalty





Launch Partner Ecosystem

Carnegie Mellon University

SAP

PartnerEdge











Target Applications

IN-MEMORY COMPUTING





BIG DATA
ANALYTICS





DATABASE SQL, NoSQL, OBJECT





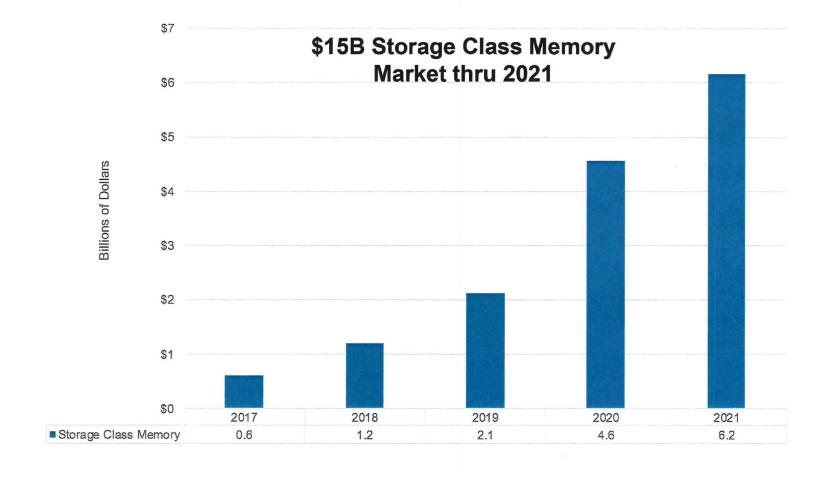
Netlist, Inc. Confidential

SEC008158 SAM-NET00550993 0519.14

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

Exhibit - 19A.0014

HybriDIMM™ ADDRESSABLE MARKET



Source: Objective Analysis, 2016.

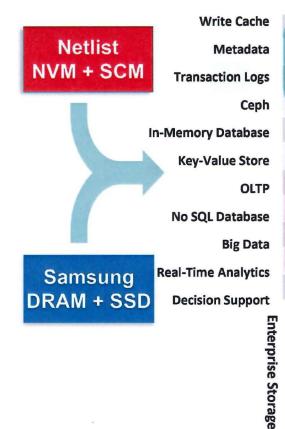
Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

Netlist, Inc. Confidential

8

SEC008159 SAM-NET00550994 0519.15

NEW MARKETS FOR NETLIST AND SAMSUNG



EV3 NV4 **HybriDIMM** OT Hyperscale **Business Intelligence** Machine Learning

In-Memory Compute

Services Institution) FSI (Financial

New Markets







































Netlist, Inc. Confidential

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

Source: Objective Analysis, 2016.

SEC008160 SAM-NET00550995 0519.16

15-YEAR SAMSUNG RELATIONSHIP

- \$200M+ purchase history beginning in 2001
 - ✓ DRAM & NAND components
 - ✓ NAND wafers
 - ✓ DIMMs
 - √ SSDs

Netlist, Inc. Confidential

10

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008161 SAM-NET00550996 0519.17

STRATEGIC & FINANCIAL PARTNERSHIP

SAMSUNG

5-Year Joint Development and Licensing Agreement

- Partnership on Storage Class Memory (SCM) technology
- Netlist one of select group with a license to all Samsung's patents
- Access to Samsung DRAM, NAND, SSDs at competitive-cost
- Samsung is Netlist's largest investor

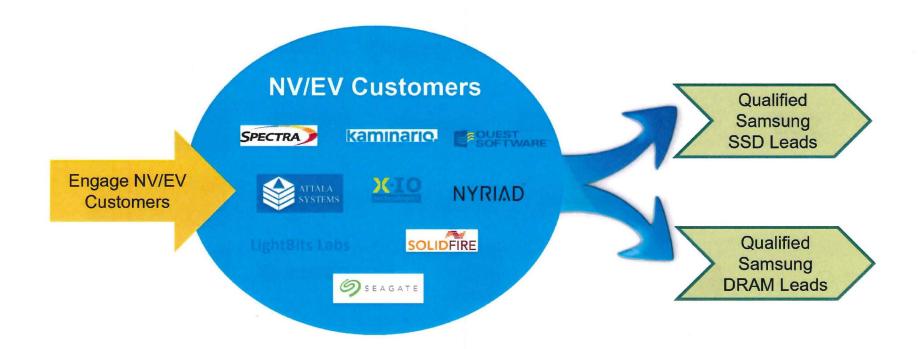
Netlist, Inc. Confidential

11

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008162 SAM-NET00550997 0519.18

NETLIST CUSTOMERS CREATE SAMSUNG SSD & DRAM HIGH-END OPPORTUNITIES



Netlist design-in work in high-end applications locks in Samsung SSD and DRAM products while locking out competition

Netlist, Inc. Confidential

12

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008163 SAM-NET00550998 0519.19

CREATING LONG TERM SAMSUNG DEMANDS

- Extending Samsung reach to high-end customers
- Extensive qualifications result in inability to switch away from Samsung
- Creates consistent demand regardless of market conditions

Automotive



Data Center





[24]7



Storage











Audio/Video











Appliances / Government











Netlist, Inc. Confidential

13

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008164 SAM-NET00550999 0519.20



CASE STUDIES: NETLIST ENABLED CUSTOMERS

Uber ATC - Pittsburgh

- Autonomous vehicles & mapping
 ✓ 1.92TB SSDs
- Experienced 40%+ failure rates with competitive supplier
- Netlist advised switch to OEM grade SSD SM863
- Monthly technical meetings in PA to optimize customer use case with Samsung solution
- Netlist provided PM863a samples and driving customer to qualify – currently in test

Riot Games - LA

- Online Gaming (League of Legends)
 - ✓ DIMMs, 2.5" & AIC SSDs
 - √ > 60% share of online gaming
 - √ > 200K installed server base
- Drove switch to Samsung products
 - ✓ Kingston RDIMMs
 - ✓ HGST SSDs (3TB)
- Evaluating PM1725 AIC (6TB) & qualifying 16/32GB RDIMMs
- Netlist enabling key take-away win

Netlist, Inc. Confidential

14

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008165 SAM-NET00551000 0519.21

SALES CHANNEL COMPARISON

Value Provided	Netlist	Distribution	Manufacturer' s Rep
Samsung Products Only	\checkmark	×	*
Dedicated Samsung Product FAE with Pre & Post Support	1	×	×
Create Samsung Qual Sockets	\checkmark	×	\checkmark
Provide Samples within limited qual windows under long lead time of sample	✓	×	×
On-hand Inventory (Support for Non-Forecasted & Small Odd Lot Requirements)	\checkmark		×
Deep Technical Engagement with Architects/Engineering on current and future products and designs	1	×	×

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008166 SAM-NET00551001 0519.22



SAMSUNG



Samsung Only

NVDIMM / SCM Synergies

Support Growth High End Customers

Netlist Growth Benefits Samsung in many ways



kaminario.

harmonic



UBER



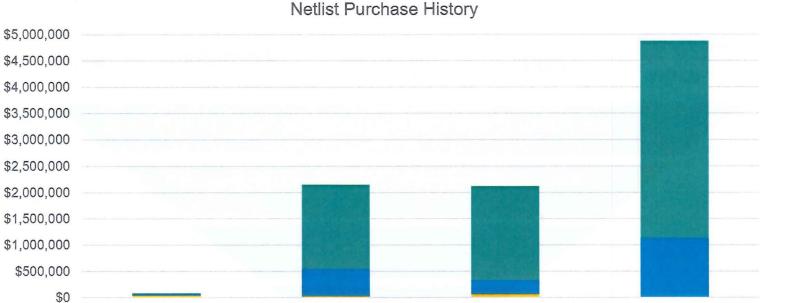
Netlist, Inc. Confidential

16

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008167 SAM-NET00551002 0519.23

2016 BUSINESS HISTORY



3Q16

New customers and qualifications resulting in rapid and sustainable growth

■Component ■DIMM ■SSD

2Q16

Netlist, Inc. Confidential

4Q16

17

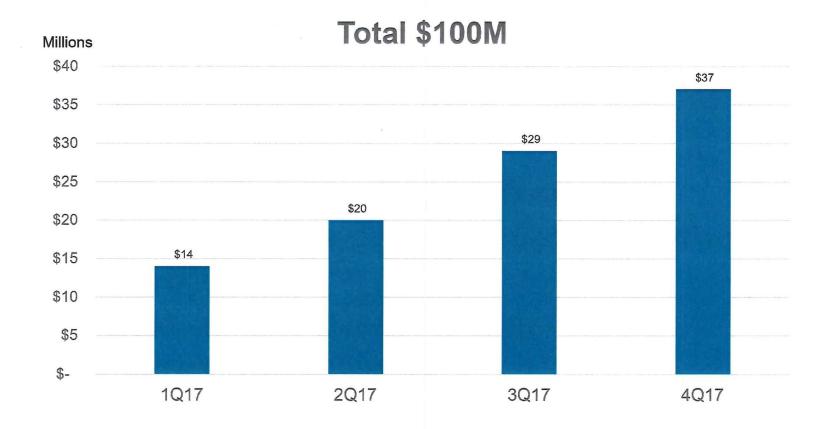
Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

1Q16

SEC008168 SAM-NET00551003 0519.24

2017 SALES PLAN - SAMSUNG PRODUCTS

6083



Netlist, Inc. Confidential

18

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008169 SAM-NET00551004 0519.25

NETLIST – NEW PARTNER TYPE STRATEGIC DEVELOPMENT and DISTRIBUTION

- Required Samsung support for Netlist
 - Product allocation support
 - Vendor Managed Inventory (VMI)
 - OEM pricing
 - Referred business for small or unique customers
 - Official Distributor-Partner Agreement

19

SEC008170 SAM-NET00551005 0519.26



Samsung – Netlist HybriDIMM Program Review

February 21, 2017 Hwasung, Korea

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008171 SAM-NET00551006 0519.27

Agenda

- Samsung's view of SCM technology and market
- Netlist HybriDIMM Status Update
- Next Steps

Netlist, Inc. Confidential

2

SEC008172 SAM-NET00551007 0519.28

Exhibit > 19A.0028

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

	\sim	\sim	-
n		×	- 1
v	v	U	
N.			/

Dec 2015	Aug 2016	Feb 2017
DDR3 LRDIMM 800MT/s	DDR4 LRDIMM 1866 MT/s	DDR4 LRDIMM 1866 MT/s
• 8GB DRAM + 256GB NAND	• 8GB DRAM + 256GB NAND	• 8GB DRAM + 256GB NAND
• 1 FPGA	Added 2nd FPGA (higher SI)	AppDirect API alpha released
 Proprietary OS drivers and library 	 Added PMEM support (drivers and library) 	 PreSight[™] technology basic write functionality
	Implemented unified data path	JEDEC compliance testing
	Completed custom command processor	underway
	HybriDIMM reveal at FMS demonstrating:	
	 System boot without BIOS change 	
	 FPGA slave IO training & calibration 	
	 Data move between DRAM and FPGA 	

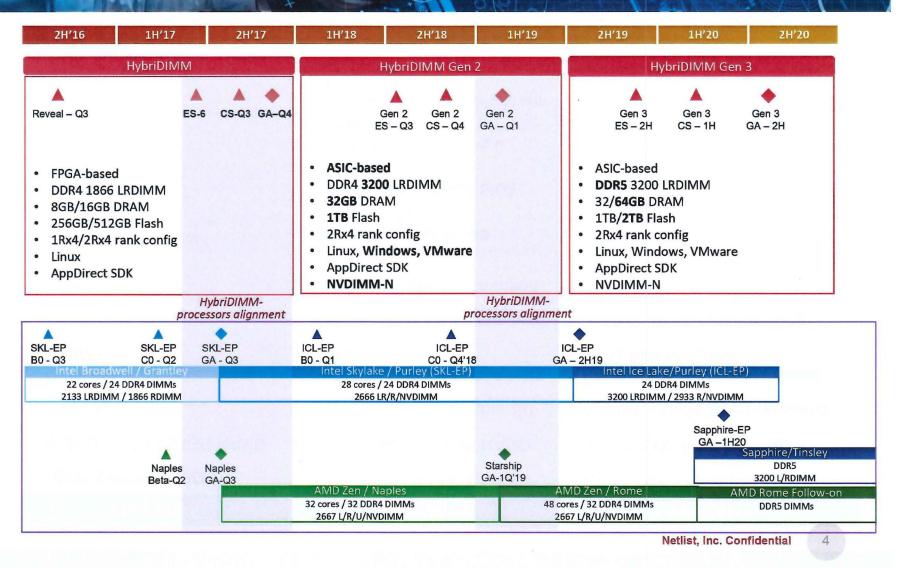
Netlist, Inc. Confidential

3

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008173 SAM-NET00551008 0519.29

HybriDIMM Product Roadmap

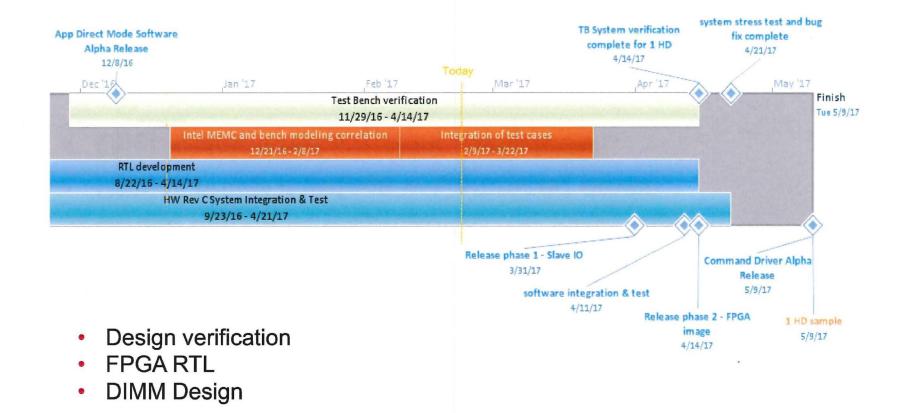


Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008174 SAM-NET00551009 0519.30

High-level Hardware Development Schedule

608



Netlist, Inc. Confidential

0

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008175 SAM-NET00551010 0519.31

- Hardware (working DIMM) released to Software team
- System recognizes Storage (eMMC) capacity
- eMMC IP optimization for full performance
- Software driver work done over the past 12 months
- Stress testing of Command driver connection w DIMM
- PMEM driver interface w Command driver
- User space interface work using NVML

Netlist, Inc. Confidential

6

SEC008176 SAM-NET00551011 0519.32

Confidential
CONFIDENTIAL - ATTORNEYS' EYES ONLY

- ES Release in June 2017
 - ✓ Provide ES to Samsung
 - ✓ Provide Performance Data
 - ✓ Hold follow-up technical meeting
- Samsung requests and expectations from Netlist

Netlist, Inc. Confidential

7

Message

From:

Neal Knuth [n.knuth@samsung.com]

Sent:

2/21/2017 5:21:41 PM

To:

Howard Sung [hwanam.sung@samsung.com]; Yejin Moon [yejin.moon@samsung.com]; Daniel (Kyong Yong) Lee-

mySingle [ky1217.lee@samsung.com]; Harrison Yoo [hsang.yoo@samsung.com]

CC:

Steven Metz [s.metz@samsung.com]; Lane Kim [kihoon74.kim@samsung.com]

Subject:

Netlist DSK Visit Feburary 21, 2017

Howard,

Harrison just translated what was said on two key topics that were discussed in Korean. I edited below. Any other feedback?

Thanks,

Neal Knuth 949 910 2835

From: Neal Knuth

Sent: Monday, February 20, 2017 11:35 PM

To: Howard Sung; Yejin Moon; Daniel (Kyong Yong) Lee-mySingle; Harrison Yoo

Cc: Steven Metz; Lane Kim

Subject: Netlist DSK Visit Feburary 21, 2017

Thanks Howard for the Samsung presentations.

I will send off to Netlist after we get their presentations (both Technical and Sales have been requested). Until I get, here are my first pass of notes without the overviews (it was difficult to read what was on the Netlist presentations). Also, as so much Korean was spoken for some topics, I hope someone can add to the below (including SEC attendees as both groups were quite large.

Please help distribute as needed within SEC after adding Team's comments or editing. (I did not copy DS).

Sales Portion

Netlist Attendees:

Paik Ki Hong VP WW Operations

Brian Anderson VP Sales

JB Kim

VP Sales

Sebastian Lee Director Engineering

Samsung Attendees:

Dong Sung Yang
Daniel Lee
Harrison Yoo
Kate Moon
Hyoungseok Kwon
Jaehyung Park
Younggyun Lee
Neal Knuth

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008178 SAM-NET00551013 0519.34

Technical:

Indong Kim Benjamin Lim KC Roo Kate Moon Neal Knuth

Netlist Sales Overview (will attach when have)

- Brain Peterson presented Netlist overview, discussing his responsibility on North America and EU sales while JB
 Kim handles Asia Pacific.
- Netlist described 17 years of DRAM development and invention, which includes over 100 patents in DRAM technology.
- Netlist was a pioneer in the development of DRAM, including patents on LRDIMM, VLP and NVDIMM.
- Discussed the JDLA signed with Samsung in November of 2015 which is active for 5 years.
- Hybrid DIMM announced publicly in August of 2016, expanding Netlist Patents.
- Discussed ITC litigation against SK Hynix. Trial to begin in May, with resolution by October 2017.
- Netlist first company to develop NV function in support of Dell.
- Hypercloud product was first LRIDMM in industry.
- Netlist Solutions and Offerings include a:
- PCI Offering
- NVDIMM
- HyperDIMM
- These solutions and customer discussions lead naturally into Samsung Storage Solutions including DRAM and SSD (finished products) besides using components in their actual products above.
- Typical DRAM Netlist solutions consists of 18-36 x4 8Gb D4 components along with 10-20 256Gb/32GB eMMC.
- Netlist main revenue driver today is a PCI express card that is plug and play along with finished Samsung solutions. Offering mainly 8GB and 16GB today.
- NVDIMM market continues to be delayed, weak demand, competing solutions yet to be proven from companies like Smart and Micron.
- NV VAULT is Netlist brand of NVDIMM-P.
- With the JDLA, and strategic partnership, Samsung is the single largest investor in Netlist.
- One stop solution for Samsung customers with NV/EV along with Samsung Finished SSD and DRAM.
- There was a very long discussion of Uber in Korean, and DongSung Yang clearly stated our intention was to follow the customer direction, whatever channel that may be (Direct or through Netlist or others).
- Netlist positioned themselves as a Dedicated Sales Channel to Samsung vs. the Disti and Rep networks.
- Synergistic sales and dedicated to Samsung products.
- Netlist showed 2016 Samsung purchases to be 9M, over ½ in Q4 (~5M)
- Netlist showed a purchase forecast for 2017 of \$100M from Samsung (neither credit line or PA can support). DongSung was sure to point out anyone could achieve this in current market. This 100M was not broken out by customer, product, or sales strategy, seemed arbitrary forecast.

At the end of Netlist presentation, these were the Asks from Netlist:

- 1. Better product support and allocation to achieve 2017 goal.
- 2. Vendor Managed Inventory (VMI), this request was ignored obviously.
- 3. OEM Pricing
- 4. Referral of small customers to Netlist for support, stock, etc.
- 5. Official Distribution Partner Agreement, this became a heated topic as DongSung described our current structure. Netlist has brought this up in the past and all requests have been denied. This discussion also went on in

Confidential CONFIDENTIAL - ATTORNEYS' EYES ONLY

SEC008179 SAM-NET00551014 0519.35 Korean for a while. DongSung also let Netlist know that the JDLA is clearly focused on Technology, and is not an avenue to support Netlist with standard products. This should be separate and handled on the business not executive levels.

Samsung Presented:

- Flash Market Overview (as time was over, this was brief). Jaehyung Park
- DRAM Market Overview Younggyun Lee
- 32GB price discussion ended the meeting.

Lunch at Japanese Restaurant.

Prior Meeting was Technical Update for progress of NVDIMM (will attach Netlist presentation when available)

Key Takeaways:

- Need JEDEC standard for Hybrid/NVDIMM. Samsung Netlist discussions ongoing for last 18 months.
- Recapping today, booting has worked on Large Memory Systems.
- 2 FPGA synch problem has been resolved.
- Indong Kim asking for more transparency from Netlist.
- Several timelines given on presentation, will forward when possible.
- Sebastian Lee stated we should have first samples in end of June, they expect to have internally in May.
- Netlist displayed their product roadmap for NV solutions.
- Partnered with AMD on NVDIMM-N launch. Also HyperDIMM reference design will be announced.
- Hardware solution has now been passed off to software team. Now eMMC recognized, stress testing underway.
- Next step is ES sample to Samsung, as mentioned in June.
- Indong was asked about competitive landscape, described mostly delay and Intel/Lenovo vs. Micron Quantex solutions.
- Indong stressed the SK Hynix and other ITC issues need to be resolved soon. Netlist stated trial to begin in May with resolution by October.
- Need to strive for standardization with JEDEC.

Thank you, 감사합니다 Neal Knuth Samsung Semiconductor, INC Southwest Regional Manager New Office Number: 949 910 2835

nealk@ssi.samsung.com

Notice: Unless specifically identified as a firm offer or an offer to sell, this message is not an offer of sale. Any terms stated in this message or prices quoted are merely indications of terms on which Samsung Semiconductor, Inc. may consider selling, and are not intended to be binding.

Privacy Notice: This message is intended only for the use of the individual to which it is addressed and may contain information that is privileged, confidential or exempt from disclosure under applicable Federal or State law. If the reader of this message is not the intended recipient, or the employee or agent responsible for the delivery of the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this email in error, please notify us immediately by telephone or return email and delete the original email and any copies thereof. Thank you.

Message

From:

Howard Sung [hwanam.sung@samsung.com]

Sent:

2/21/2017 8:11:12 AM

To:

Neal Knuth [n.knuth@samsung.com]

Subject:

PPT(Netlist Meeting)

Attachments: Netlist _ Samsung 022117_rev.pptx

Hi Neal,

When Dram material is updated, I will re-send the PPT

감사합니다.

Howard SUNG (NWSA: Qualcomm) +82-31-208-4327 +82-10-7727-1868



The above message is intended solely for the named addressee and may contain trade secret, industrial technology or privileged and confidential information otherwise protected under applicable law including the Unfair Competition Prevention and Trade Secret Protection Act. Any unauthorized dissemination, distribution, copying or use of the information contained in this communication is strictly prohibited. If you have received this communication in error, please notify the sender by email and delete this communication immediately.

상기 메일은 지정된 수신인만을 위한 것이며 부정경쟁 방지 및 영업비밀 보호에 관한 법률을 포함하여 관련 법령에 따라 보호의 대상이 되는 <mark>영업비밀, 산업기술 등을 포함</mark>하고 있을 수 있습니다. 본 문서에 포함된 정보의전부 또는 일부를 <mark>무단으로 제3자에게 공개, 배포, 복사 또는 사용하는 것은 엄격히 금자</mark> 됩니다. 본 메일이 잘못 전송된 경우, 발신인에게 알려 주시고 즉시 삭제하여 주시기 바랍니다.



Confidential

Attendees

- Date & Time: Feb 21st, 2017(Tue.), 09:15 11:45
- Place: @ Hwasung, Korea(Room #108)

NETLIST

J.B. Kim Brian Peterson Paik Ki Hong Sebastian Lee EVP of Asia Pacific Sales and Strategic Biz SVP of Sales and Marketing

VP of Operation
Director of Engineering

SAMSUNG

Dongsung Yang
Indong Kim
Daniel Lee
Harrison Yoo

Harrison Yoo Kate Moon

Neal Knuth

VP, Sales group 1

Principal Engineer, Product planning

Dir, Sales group 1 Dir, Sales group 1 Dir, Sales group 1

Sr. Manager, DSA West2 Sales

SAMSUNG

2

Time table	
Time	Subject
09:15 ~ 10:20	- Engineering Meeting
10:20 ~ 10:30	- Break Time
10:30 ~ 11:45	- Sales Meeting
11:45 ~	- Lunch
COMCHAG	



* Version: 22.0

* Subject: Strategy Marketing Team Org



